

The Invention Claimed Is:

1. Apparatus for selective releasable connection to a toilet bowl having a toilet bowl side wall defining a toilet bowl interior and a toilet bowl rim attached to said toilet bowl side wall and projecting over said toilet bowl interior, said toilet bowl defining flush water exit holes for directing flush water into said toilet bowl interior under said toilet bowl rim, said apparatus for cleaning said toilet bowl at the location of said flush water exit holes and comprising, in combination:

a conduit having a conduit interior, said conduit for positioning in said toilet bowl interior under said toilet bowl rim and for extending substantially the full length of the perimeter of said toilet bowl side wall, said conduit defining a plurality of outwardly directed, spaced apertures communicating with said conduit interior;

spacer structure connected to said conduit for frictionally engaging said toilet bowl side wall and cooperable with said toilet bowl side wall when said conduit is positioned in said toilet bowl interior to maintain said conduit at a predetermined position relative to said toilet bowl side wall with said outwardly directed, spaced apertures thereof generally oriented toward said flush water exit holes; and

a water supply pipe connected to said conduit for delivering pressurized water to said conduit interior from a

source of pressurized water whereby said pressurized water exits said outwardly directed, spaced apertures and is directed toward said toilet bowl in the vicinity of said flush water exit holes.

2. Apparatus according to Claim 1 wherein said spacer structure comprises a plurality of projections projecting outwardly from said conduit.

3. Apparatus according to Claim 2 wherein said projections comprise spaced rings extending about said conduit.

4. Apparatus according to Claim 1 wherein said conduit is resilient and has a selectively deformable, generally circular configuration, said conduit having a position memory and cooperable with said spacer structure and said toilet bowl side wall when positioned in said toilet bowl interior to resist downward movement of said conduit within said toilet bowl interior from said predetermined position.

5. Apparatus according to Claim 1 additionally comprising at least one water control valve operatively associated with said water supply pipe for controlling the flow of water through said water supply pipe.

6. Apparatus according to Claim 5 additionally comprising a timer operatively associated with said at least one water control valve to automatically open and close said at least one water control valve.

7. Apparatus according to Claim 5 additionally comprising a chemical injector located between said at least one water control valve and said conduit for introducing chlorine or other desired chemical into water delivered to said conduit interior.

8. In combination:

a toilet bowl having a toilet bowl side wall defining a toilet bowl interior and a toilet bowl rim attached to said toilet bowl side wall and projecting over said toilet bowl interior, said toilet bowl defining flush water exit holes for directing flush water into said toilet bowl interior under said toilet bowl rim; and

apparatus for cleaning said toilet bowl at the location of said flush water exit holes and comprising, in combination:

a conduit having a conduit interior positioned in said toilet bowl interior under said toilet bowl rim and extending substantially the full length of the perimeter of said toilet bowl side wall, said conduit defining a plurality of outwardly directed, spaced apertures communicating with said conduit interior;

spacer structure connected to said conduit frictionally engaging said toilet bowl side wall and cooperable with said toilet bowl side wall to maintain said conduit at a predetermined position relative to said toilet bowl side wall with said

outwardly directed, spaced apertures thereof generally oriented toward said flush water exit holes; and

a water supply pipe connected to said conduit for delivering pressurized water to said conduit interior from a source of pressurized water whereby said pressurized water exits said outwardly directed, spaced apertures and is directed toward said toilet bowl in the vicinity of said flush water exit holes.

9. The combination according to Claim 8 wherein said spacer structure comprises a plurality of projections projecting outwardly from said conduit.

10. The combination according to Claim 9 wherein said projections comprise spaced rings extending about said conduit.

11. The combination according to Claim 8 wherein said conduit is resilient and has a selectively deformable, generally circular configuration, said conduit having a position memory and cooperable with said spacer structure and said toilet bowl side wall to resist downward movement of said conduit within said toilet bowl interior from said predetermined position.

12. The combination according to Claim 8 wherein said apparatus additionally comprises at least one water control valve operatively associated with said water supply pipe for controlling the flow of water through said water supply pipe.

13. The combination according to Claim 12 wherein said apparatus additionally comprise a timer operatively associated

with said at least one water control valve to automatically open and close said at least one water control valve.

14. The combination according to Claim 12 wherein said apparatus additionally comprises a chemical injector located between said at least one water control valve and said conduit for introducing chlorine or other desired chemical into water delivered to said conduit interior.

15. The combination according to Claim 8 wherein said toilet bowl side wall diverges in an upward direction and forms an interior corner with said toilet bowl rim extending about an upper portion of the toilet bowl interior, said predetermined position being under the toilet bowl rim at said corner.

16. The combination according to Claim 15 wherein said spacer structure is in frictional engagement with said toilet bowl rim and with said toilet bowl side wall and bears against and is cooperable with said diverging toilet bowl side wall to resist downward movement of said conduit and spacer structure.